

MR957-1404

Serial Number: 10/679,311

Reply to Office Action dated 15 September 2005

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listing of claims in the application:

Listing of Claims:

Claims 1-2 (Canceled).

Claim 3. (Currently Amended) An actuating mechanism for a movable arm of a pipe bender, comprising:

a power source for delivering torque for displacing a movable arm of a pipe bender ~~with~~ with said power source including an output shaft defining a first axis;
and

a transmission for passing on movement of the power source to the movable arm, the transmission including:

(1) a planetary gear set, the planetary gear set having a sun gear fixedly disposed in a front portion of the pipe bender, and a central shaft arranged in the sun gear for connection with the power source, said central shaft defining a second axis, said second axis being transversely oriented with respect to said first axis; the planetary gear set having an actuating shaft arranged in the sun gear, and connected to the movable arm for allowing the movable arm to move together therewith; the planetary gear set having a plurality of planet pinions rotary on respective shafts supported in position on the actuating shaft; the planet pinions being engaged with both the central shaft and a toothed inner side of the sun gear;

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(2) a crown gear securely connected with a lower end of the central shaft of the planetary gear set; and

(3) an actuating pinion securely connected with an said output shaft of the power source, and engaged with the crown gear;

the said power source being disposed adjacent to said transmission and including:

(1) a motor for delivering torque to the movable arm; and

(2) a second planetary gear set, the second gear set having a sun gear fixedly disposed in the front portion of the pipe bender; the second gear set having a central shaft arranged in the sun gear and securely connected with an actuating shaft of the motor to be rotary together with the actuating shaft; the output shaft of the power source being arranged in the sun gear; the second gear set having a plurality of planet pinions rotary on respective shafts supported in position on the output shaft; the planet pinions being engaged with both the central shaft and a toothed inner side of the sun gear.